U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

_ Other

Requestor's Name:		Serial Number:	
Name:	· .	-	
Date:	Phone:	Art	Unit:
Search Topic: lease write a detailed statement of erms that may have a special mean lease attach a copy of the sequence	ing. Give examples or relevent of	citations, authors, keyword	s, etc., if known. For sequences,
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PTO-1590 (9-90)

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Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

abular output not generated. Fri Sep 18 13:44:55 1998; MasPar time 2.47 Seconds 537.274 Million cell updates/sec

Description: Perfect Score: Title: >US-08-765-588-6 (1-188) from US08765588.pep

: Sequence: 1 MSPLLRRLLLAALLQLAPAQ......CQGRGLELNPDTCRCRKLRR 188

Scoring table: PAM 150 Gap 11

77021 seqs, 7058996 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database:

a-issued 1:5_COMB 2:PCT9_COMB 3:backfiles1

Statistics: Mean 29.152; Variance 121.909; scale 0.239

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

sult No.	Score	Query Match	Query Match Length I	BB	Ħ	Description	Pred. No.	
1	1458	100.0	188	μ,	US-08-469-	Sequence 11, Applicati	6.66e-135	
2	1317	90.3	188	μ	8-46	5	1.60e-120	
ω	1240	85.0	195	Ľ	US-08-469-	7,	1.11e-112	
4	897	61.5	133	٢	US-08-469-	9	6.75e-78	
5	709	48.6	102	-	US-08-469-	,	5.58e-59	
σ	517	35.5	165	w	5194596-18		7.46e-40	
7	517	35.5	165	w	5219739-19	Patent No. 5219739.	7.46e-40	
8	518	35.5	191	ω	5332671-4	Patent No. 5332671.	5.94e-40	
•	505	34.6	190	w	5332671-3	Patent No. 5332671.	1.15e-38	
10	492	33.7	164	ω	5219739-18	Patent No. 5219739.	2.20e-37	
11	492	33.7	164	ω	5219739-17	Patent No. 5219739.	2.20e-37	
12	492	33.7	164	ω	5194596-17	Patent No. 5194596.	2.20e-37	
13	486	33.3	189	_	US-08-469-	Sequence 15, Applicati	8.58e-37	
14	400	27.4	55	—	US-08-469-	Sequence 3, Applicatio	2.32e-28	
15	383	26.3	121	ω	5194596-19	Patent No. 5194596.	1.04e-26	
16	383	26.3	121	ω	5219739-20	Patent No. 5219739.	1.04e-26	
17	377	25.9	231	N	PCT-US96-0	Sequence 10, Applicati	3.99e-26	
18	372	25.5	214	ω	5240848-11	Patent No. 5240848.	1.22e-25	
19	372	25.5	. 215	w	5219739-22	Patent No. 5219739.	1.22e-25	
20	371	25.4	215	w	5240848-7	Patent No. 5240848.	1.53e-25	
21	361	24.8	120	w	5219739-9	ŏ.	1.42e-24	
22	361	24.8	120	ω	5194596-9	Patent No. 5194596.	1.42e-24	
23	296	20.3	149	μ	US-08-469-	Sequence 14, Applicati	2.48e-18	

	45	44	43	42	41	40	39	3 8.	37	36	ω 5	34	ω ω	32	31	ω 0	29	28	27	26	25	24	
	169	169	170	170	170	170	170	170	170	172	172	177	177	177	177	177	177	177	177	177	177	178	
	11.6	11.6	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.8	11.8	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.2	
	125	125	282	120	109	109	109	109	109	109	109	241	241	241	241	241	241	241	226	220	160	419	
	۳	\vdash	Н	w	N	<u>, , , , , , , , , , , , , , , , , , , </u>	N	μ	ω	μ	-4	N	J-4	ω	-	ω	w	w	ω	ω	_	N	
	US-08-095-	US-07-883-	US-08-445-	5428135-2	PCT-US91-0	US-08-094-	PCT-US93-0	US-08-094-	5498600-3	US-08-094-	US-08-094-	PCT-US96-0	US-08-469-	5219739-15	US-08-387-	5194596-15	5175255-8	5175255-2	5498600-2	5175255-4	US-08-094-	PCT-US96-0	
	Sequence 4, A	Sequence 7, A	Sequence 1, A	خد	Sequence 18;	Sequence 4, A	Sequence 1, A	Sequence 2, A		Sequence 5, A	Sequence 3, A	Sequence 9, A	Sequence 13, Applicat	Patent No. 52	Sequence 4, A	Patent No. 51	Patent No. 51	Patent No. 51	Patent No. 54	٠	Sequence 1, A	Sequence 2, A	
	Applicatio	Applicatio	Applicatio	5428135.	Applicati	Applicatio	Applicatio	Applicatio	5498600.	Applicatio	Applicatio	Applicatio	Applicati	5219739.	Applicatio	5194596.	5175255.	5175255.	5498600.	5175255.	Applicatio	pplicatio	
	1.45e-06 c	1.45e-06	1.18e-06	1.18e-06	1.18e-06	1.18e-06	1.18e-06	1.18e-06	1.18e-06	7.81e-07	7.81e-07	2.79e-07	2.79e-07	2.79e-07	2.79e-07	2.79e-07	2.79e-07	2.79e-07	2.79e-07	2.79e-07	2.79e-07	2.27e-07	
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ALIGNMENTS

XXXXX US-08-469-427A-11 STANDARD; PRT; 188 ⋧

Sequence 11, Application US/08469427A

1, Application US/08469427A

Eriksson, Ulf Olofsson, Birgitta Alitalo, Kari

TITLE OF INVENTION: VASCULAR ENDOTHELIAL GROWTH FACTOR-B AND TITLE OF INVENTION: DNA CODING THEREFOR NUMBER OF SEQUENCES: 17 CORRESPONDENCE ADDRESS:

Edwards & Lenahan Suite 700

Washington 1200 G Street, McKeown, et, N.W.,

ADDRESSEE:

STATE: LC STATE: 20005

COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOTWARE: Patentin Release #1.0, CURRENT APPLICATION DATA: COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

APPLICATION NUMBER: FILING DATE: 06-JUI Patentin Release #1.0, 06-JUN-1995 N: 435 US/08/469,427A Version #1.25

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08
FILING DATE: 01-MAR-1995
ATTORNEY/AGENT INFORMATION: US 08/397,651

CLASSIFICATION:

NAME: Evans, Joseph D REGISTRATION NUMBER: :

TELECOMMUNICATION INFORMATION: TELEPHONE: (202) 628-8800

REFERENCE/DOCKET NUMBER:

26, 269

41979cp2

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                                                              CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/397,651
FILING DATE: 01-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: EVANS, JOSEPh D
REGISTRATION NUMBER: 26,269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Patent No.
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                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                       SOFTWARE: Patentin Relo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: VASCULAR ENDOTHELIAL GROWTH FACTOR-B AND TITLE OF INVENTION: DNA CODING THEREFOR NUMBER OF SEQUENCES: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
TISSUE TYPE: human fibrosarcoma
PENCE 188 AA; 21261 MW; 161002 CN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  QCECRPKKKDSAVKPDSPRPLCPRCTQHHQRPDPRTCRCRCRRRSFLRCQGRGLELNPDT 180
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                       REFERENCE/DOCKET NUMBER: 41 PROCEDURE OF THE PROCEDURE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          QCECRPKKKDSAVKPDSPRPLCPRCTQHHQRPDPRTCRCRCRRRSFLRCQGRGLELNPDT
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                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                            APPLICATION NUMBER: FILING DATE: 06-JUI
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STRANDEDNESS: si
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Similarity 100.0%;
188; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1200 G Street, N.W.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pajusola,
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Alitalo, Kari
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                                                                                                                                                                                                                                                                                               Release #1.0, Version
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Pred. No. 6.66e-135;
0; Mismatches 0;
                                             41979cp2
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Suite 700
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 7, Application US/08469427A
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local
                                                                                                                                                         CURRENT APPLICATION DATA: APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HYPOTHETICAL: N
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 188 amino acids
                                                                                        PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE:
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                                   APPLICATION NUMBER: US U
                                                                                                                                                                                             COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE: Evenson, McI
STREET: 1200 G Street,
                                                                                                                                                                                                                                                                                                                                                             CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TISSUE TYPE: adult mouse heart
CE 188 AA; 21442 MW; 162579 CN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRANDEDNESS:
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Similarity 87.8%;
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Alitalo, Kari
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et, N.W.,
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Sequence 10, Applicat Sequence 10, Applicant 101618; Applicant Of INVENTION INTILE OF INVENTION INTILE OF INVENTION INTILE OF SEQUENCE ADDITILE OF SEQUENCE ADDITILE OF SEQUENCE CORRESPONDENCE ADDITICE IN APPLICATION TYPE: F1 COMPUTER READABLE MEDIUM TYPE: F1 COMPUTER IN PRICE PATEN SOFTWARE: PATEN CORPUTER APPLICATION NUMB FILING DATE: 01 APPLICATION NUMB FILING DATE: 02 ORSISTRATION NUMB FILIPEDANE: (202) INFORMATION FOR SEQUENCE CHARJ TEREFAX: (202) INFORMATION FOR SEQUENCE CHARJ TYPE: nucleic a	T 1 US-08-469-	200000000000000000000000000000000000000
ence 10, Application US/ ence 10, Application US/ ence 10, Application US/ ERAL INFORMATION: PPLICANT: Eriksson, Ulf PPLICANT: Olofsson, Bir PPLICANT: Altalo, Kari IPLICANT: Pajusola, Kat IPLICANT: Pajusola, Kat IPLICANT: Pajusola, Kat IPLE OF INVENTION: DNA UMBER OF SEQUENCES: 17 ORRESPONDENCE ADDRESS: ADDRESSEE: Evenson, Mc STREET: 1200 G Street, CITY: Washington STATE: DC ZIP: 20005 MEDIUM TYPE: Ploppy di COMPUTER READABLE FORM: MEDIUM TYPE: Ploppy di COMPUTER READABLE FORM: MEDIUM TYPE: Ploppy di COMPUTER READABLE FORM: MEDIUM TYPE: PLOPPY di COMPUTER OF THE PROPER IPLICATION NUMBER: US FILING DATE: 06-JUN-19 CLASSIFICATION NUMBER: US FILING DATE: 07-MAR-15 CHAREL BYAND: OSSEPH D REGISTRATION NUMBER: US FILING DATE: US FILIPHONEE: EVAND: CHARLISTICON UMBER: US FILIPHONEE: (202) 628-884 ORMATION FOR SEQ ID NO: LENGTH: 570 base pairs TYPE: nucleic acid	427A-10	
Application US/0846; Application US/0846; Application US/0846; Application US/0846; FORMATION: IT Exiksson, Ulf IT Olofsson, Birgitt IT Alitalo, Kari IT Alitalo, Kari IT Pajusola, Katri INVENTION: DAR CODIF SEGUENCES: 17 SEE: Evenson, MCKGOV 1200 G Street, N.W Washington DC 20005 REZADABLE FORM: TYPE: Floppy disk ER: IBM PC compatible ING SYSTEM: PC-DOS/M RE: Patentin Release APPLICATION DATA: ANTION NUMBER: US/08/ DATE: 06-JUN-1995 FICATION DATA: ANTION NUMBER: US/08/ PARTION NUMBER: US/08/ PARTION NUMBER: US/08/ PARTION NUMBER: US/08/ PARTION NUMBER: 06.26 RATION NUMBER: 05.26 RATION NUMBER: 05.26 RATION NUMBER: 05.26 RATION NUMBER: 05.26 RATION NUMBER: 03.26 RATION SEE 100.08 RESE	STANDARD;	1369 1857 1877 728 498 498 199 199 190 190 190 1543 1543 1543 1543 215 215 215 215 215 215 215 215 215 215
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0846947 0846941 I1 I1 IUTLAR EL CODING CODING CODING EREOWN, N.W.,	ALIGNMENTS DNA; UNC;	PCT-US95-1 PCT-US95-1 PCT-US95-1 PCT-US95-1 PCT-US95-1 S-19739-2 S-19739-2 S-19739-1 S-194596-1 S-194596-16 S-194596-16 S-08-238-19-08-288-194596-16 PCT-US93-0 US-08-1484-195-11
427A 427A 427A 427A 427A 427A 427A GENDOTHELIAL GROWTH FACTOR-B GENDOTHELIAL GROWTH FACTOR-B GO THEREFOR Lenahan Len	<i>*</i>	Sequence 33, Applicati Sequence 79, Applicati Sequence 79, Applicati Sequence 27, Applicati Sequence 28, Applicati Patent NO. 5219739. Sequence 18, Applicati Patent NO. 5219739. Patent NO. 5219739. Patent NO. 5332671. Sequence 5, Applicatio Sequence 5, Applicatio Sequence 15, Applicatio Sequence 15, Applicatio Sequence 15, Applicatio Sequence 17, Applicatio Sequence 7, Applicatio Sequence 1, Applicatio Sequence 1, Applicatio Sequence 1, Applicatio
Best Available	Cam	3.61e-13 3.61e-13 1.28e-12 1.28e-12 5.56e-11 5.56e-11 5.56e-11 6.67e-10 6.67e-10 6.67e-10 7.99e-08 8.79e-08 8.79e-08 8.79e-08 8.79e-08 9.79e-08 9.79e-08 9.79e-08 9.79e-08 9.79e-08 9.79e-08 9.79e-08 9.79e-08 9.79e-08

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HYPOTHETICAL: NO
ORIGINAL SOURCE:
TISSUE TYPE: human fibrosarcoma
SEQUENCE 570 BP; 105 A; 198 C; 173 G; 94 T; 0 OTHER
                                                                                                                                                                                                                                                                                                             US-08-469-427A-4
                                                                                                                                                                                                                                                           Patent No.
          MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatable
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, V
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,427/
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                              301
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                                                                                        ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
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    APPLICATION NUMBER:
                                                                                                                                                        ADDRESSEE:
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Similarity 100.0%;
412; Conservative
                                                                                                                                   Washington
                                                                                                                                                                                                                                                                     Application US/08469427A
Application US/08469427A
                                                                                                                                                                                                      Olofsson, Birg
Alitalo, Kari
Pajusola, Katı
                                                                                                                                              1200 G Street,
                                                                                                                                                                                                                           Eriksson, Olf
Olofsson, Birgitta
                   . 06-JUN-1995
ON: 435
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                                                                                                                                                                            VASCULAR ENDOTHELIAL GROWTH FACTOR-B AND DNA CODING THEREFOR

17
                                                              Release #1.0, Version
                                                                                                                                              McKeown, et, N.W.,
    US 08/397,651
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Pred. No. 7.79e-243;
0; Mismatches 0;
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Query Match 29.3%;
Best Local Similarity 89.2%;
Matches 364; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                US-08-469-427A-8
                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                         365 gtgtgaatgcagacctaaaaaaaggacagtgctgtgaagccagacag
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SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         125
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HYPOTHETICAL: NO
ORIGINAL SOURCE:
TISSUE TYPE: adult mouse heart
DUENCE 565 BP; 120 A; 179 C; 166 G.
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                                                                                     CORRESPONDENCE
                                                                                                     TITLE OF INVENTION: VASCULAR ENDOTHELIAL TITLE OF INVENTION: DNA CODING THEREFOR NUMBER OF SEQUENCES: 17
                                                                                                                                                                                                          APPLICANT:
STREET: 1200
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REGISTRATION NUMBER: 26
REFERENCE/DOCKET NUMBER:
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Olofsson, Birg
Alitalo, Kari
                                         1200 G Street,
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                                       McKeown,
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Pred. No. 3.12e-183;
0; Mismatches 44;
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